

REMARKS

Applicants appreciate the Examiner's thorough examination of the present application as evidenced by the Final Office Action of April 11, 2005 (hereinafter "Final Action") and the Advisory Action of June 28, 2005. In response, Applicants have amended independent Claim 1 by incorporating dependent Claims 4 and 5, amended independent Claim 6 by incorporating dependent Claims 7 and 8, amended independent Claim 16 by incorporating dependent Claims 19 and 20, amended independent Claim 21 by incorporating dependent Claims 22 and 23, amended independent Claim 27 by incorporating dependent Claims 30 and 31, and amended independent Claim 32 by incorporating dependent Claims 33 and 34. The incorporated dependent Claims have been canceled without prejudice or disclaimer. Applicants respectfully submit that the cited reference fails to disclose or suggest, at least, the recitations of the independent claims as amended. Therefore, Applicants respectfully submit that all pending claims are in condition for allowance. Favorable reconsideration of all pending claims is respectfully requested for at least the reasons discussed hereafter.

Double Patenting

Claims 1, 4, 6, 7, 16, 19, 21, 22, 27, 30, 32, and 33 stand provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 1, 3, 31, and 59 of copending Application No. 09/852,562. (Final Action, page 2). Applicants have amended independent Claim 1 by incorporating dependent Claims 4 and 5, amended independent Claim 6 by incorporating dependent Claims 7 and 8, amended independent Claim 16 by incorporating dependent Claims 19 and 20, amended independent Claim 21 by incorporating dependent Claims 22 and 23, amended independent Claim 27 by incorporating dependent Claims 30 and 31, and amended independent Claim 32 by incorporating dependent Claims 33 and 34. Accordingly, Applicants respectfully submit that the double patenting rejection has been overcome.

Independent Claims 1, 6, 16, 21, 27, and 32 are Patentable

Claims 1, 6, 16, 21, 27, and 32 stand rejected under 35 U.S.C. §102(e) as being anticipated by U. S. Patent No. 6,327,647 to Moyer et al. (hereinafter "Moyer"). (Final Action, page 3). Applicants have amended independent Claim 1 by incorporating dependent

Claims 4 and 5, amended independent Claim 6 by incorporating dependent Claims 7 and 8, amended independent Claim 16 by incorporating dependent Claims 19 and 20, amended independent Claim 21 by incorporating dependent Claims 22 and 23, amended independent Claim 27 by incorporating dependent Claims 30 and 31, and amended independent Claim 32 by incorporating dependent Claims 33 and 34.

Independent Claim 1 is directed to a method of operating a cryptographic data processing system and recites, in part:

...
loading at least one operand from the system memory to the local memory; and
executing an instruction using the cryptographic processor that references the at least one operand using a first relative position in the local memory, comprising:
generating a result based on the at least one operand; and
storing the result at a second relative position in the local memory;
wherein the first relative position comprises a first offset from a base address in the local memory, and the second relative position comprises a second offset from the base address in the local memory.

Claims 6, 16, 21, 27, and 32 include similar recitations. Thus, according to independent Claim 1, the cryptographic processor executes the instruction such that one or more operands are referenced using a relative position in a local memory, as opposed to, for example, storing the one or more operands in a register. This aspect of the present invention is discussed, for example, at page 13, lines 15 through 32 of the present application. Moreover, a result is generated that is stored in a second relative position in local memory. The first and second relative positions comprising first and second offsets from a base address.

In sharp contrast, Moyer describes a data processing system in which operands are passed from a processor 12 to coprocessors 14, 16. (Moyer, col. 8, lines 56 - 67). Moyer appears to contain no discussion, however, about how the coprocessors 14, 16 store the operands for use when executing an instruction. Applicants acknowledge that Moyer describes a coprocessor 14 as having storage circuitry 104 (see Moyer, FIG. 3). Moyer explains, however, that the storage circuitry 104 is optional (Moyer, col. 5, lines 37 - 39) and does not provide any indication with respect to whether operands are stored in a memory, such as the storage circuitry 104, for use by the coprocessor 14 in executing an instruction.

In response to the foregoing analysis, the Final Action cites the passage beginning at col. 8, line 56 and ending at col. 9, line 8 as disclosing a cryptographic processor that loads an operand from system memory into local memory. As discussed above, Applicants acknowledge that Moyer describes a data processing system in which operands are passed from a processor 12 to coprocessors 14, 16. (Moyer, col. 8, lines 56 - 67). Applicants submit, however, that this passage of Moyer appears to contain no disclosure about where the operands are stored for execution when they are passed from the processor 12 to the coprocessors 14, 16. That is, Moyer does not explain whether the operands are stored in a local memory or whether they are stored in one or more registers. Moreover, Moyer does not appear to contain any disclosure with respect to where a result is stored.

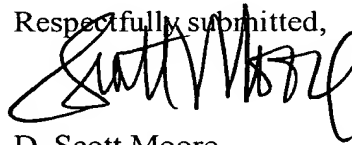
For at least these reasons, the Applicants respectfully submit that Claims 1, 6, 16, 21, 27, and 32 are patentable over the cited reference and that dependent Claims 2 - 4, 17 - 18, and 28 - 29 are patentable for at least the reason that they depend from an allowable claim.

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CONCLUSION

In light of the above amendments and remarks, Applicants respectfully submit that the above-entitled application is now in condition for allowance. Favorable reconsideration of this application, as amended, is respectfully requested. If, in the opinion of the Examiner, a telephonic conference would expedite the examination of this matter, the Examiner is invited to call the undersigned attorney at (919) 854-1400.

Respectfully submitted,



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